CLAIMS

What is claimed is:

1   1. A method of providing secure content-based user experience
2 enhancement in a player device for rendering digital content comprising:
3   accepting encrypted digital content;
4   decrypting the encrypted digital content into decrypted digital content;
5   downsampling the decrypted digital content into downsampled digital
6 content; and
7   processing the downsampled digital content by an enhancement module
8 to provide user experience enhancement.
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1   2. The method of claim 1, further comprising decompressing the
2 decrypted digital content prior to downsampling.
3

1   3. The method of claim 1, further comprising rendering the decrypted
2 digital content for perception by a user.
3

1   4. The method of claim 1, further comprising protecting the decrypting
2 and downsampling actions by using tamper resistance techniques to deter
3 unauthorized access to the decrypted digital content.
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1   5. The method of claim 1, wherein the processing comprises displaying
2 data to enhance the user experience in perceiving the digital content based at
3 least in part on the downsampled digital content.
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1   6. The method of claim 1, wherein the encrypted digital content
2 comprises high fidelity digital content and the downsampled digital content
3 comprises content at a fidelity lower than the high fidelity digital content.
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1   7. The method of claim 1, wherein the encrypted digital content
2   comprises digital audio data and the processing comprises generating a display
3   of information for the user to enhance the user's experience in using the player
4   device, based at least in part on downsampled digital audio data.
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1   8. An article comprising: a storage medium having machine readable
2   instructions stored thereon, the instructions, when executed by a processor,
3   provide for secure content-based user experience enhancement in a player
4   device for rendering digital content by accepting encrypted digital content,
5   decrypting the encrypted digital content into decrypted digital content,
6   downsampling the decrypted digital content into downsampled digital content,
7   and processing the downsampled digital content by an enhancement module to
8   provide user experience enhancement.
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1   9. The article of claim 8, further comprising instructions for
2   decompressing the decrypted digital content prior to downsampling.
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1   10. The article of claim 8, further comprising instructions for rendering the
2   decrypted digital content for perception by a user.
3

1   11. The article of claim 8, further comprising instructions for protecting the
2   decrypting and downsampling actions by using tamper resistance techniques to
3   deter unauthorized access to the decrypted digital content.
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1   12. The article of claim 8, wherein the processing instructions comprise
2   instructions for displaying data to enhance the user experience in perceiving the
3   digital content based at least in part on the downsampled digital content.
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1   13. The article of claim 8, wherein the encrypted digital content comprises
2   high fidelity digital content and the downsampled digital content comprises
3   content at a fidelity lower than the high fidelity digital content.

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1 14. The article of claim 8, wherein the encrypted digital content comprises

2 digital audio data and the processing instructions comprise instructions for

3 generating a display of information for the user to enhance the user's experience

4 in using the player device, based at least in part on downsampled digital audio

5 data.

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1 15. A processing system providing secure content-based user

2 experience enhancement in a player device for rendering digital content,

3 comprising:

4 a decryption agent to accept encrypted digital content, to decrypt the

5 encrypted digital content into decrypted digital content, and to downsample the

6 decrypted digital content into downsampled digital content; and

7 an enhancement module to receive the downsampled digital content and

8 to process the downsampled digital content to provide user experience

9 enhancement.

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1 16. The system of claim 15, further comprising a decompressor module

2 to decompress the decrypted digital content prior to downsampling.

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1 17. The system of claim 15, further comprising a renderer module to

2 render the decrypted digital content for perception by a user.

3

1 18. The system of claim 15, wherein the decryption agent is tamper

2 resistant software to protect the decrypted digital content from unauthorized

3 access.

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1 19. The system of claim 15, wherein the enhancement module displays

2 data to enhance the user experience in perceiving the digital content based at

3 least in part on the downsampled digital content.

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1   20. The system of claim 15, wherein the encrypted digital content

2   comprises high fidelity digital content and the downsampled digital content

3   comprises content at a fidelity lower than the high fidelity digital content.

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1   21. The system of claim 15, wherein the encrypted digital content

2   comprises digital audio data and the enhancement module generates a display

3   of information for the user to enhance the user's experience in using the player

4   device, based at least in part on downsampled digital audio data.

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1   22. A method of providing secure content-based user experience

2   enhancement in a player device for rendering digital content comprising:

3   accepting encrypted high fidelity digital content and low fidelity

4   downsampled content corresponding to the encrypted high fidelity content;

5   decrypting the encrypted high fidelity digital content into decrypted digital

6   content;

7   rendering the decrypted digital content for perception by a user; and

8   processing the low fidelity downsampled digital content by an

9   enhancement module to provide user experience enhancement.

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1   23. The method of claim 22, wherein the processing comprises displaying

2   data to enhance the user experience in perceiving the rendered high fidelity

3   digital content based at least in part on the low fidelity downsampled digital

4   content.

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1   24. The method of claim 22, further comprising protecting the decrypting

2   and rendering actions by using tamper resistance techniques to deter

3   unauthorized access to the decrypted digital content.

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1   25. The method of claim 22, wherein the encrypted high fidelity digital

2   content comprises digital audio data and the processing comprises generating a

3   display of information for the user to enhance the user's experience in using the

4   player device, based at least in part on the low fidelity downsampled digital

5   content.

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1   26. An article comprising: a storage medium having machine readable

2   instructions stored thereon, the instructions, when executed by a processor,

3   provide for secure content-based user experience enhancement in a player

4   device for rendering digital content by accepting encrypted high fidelity digital

5   content and low fidelity downsampled content corresponding to the encrypted

6   high fidelity content, decrypting the encrypted high fidelity digital content into

7   decrypted digital content, rendering the decrypted digital content for perception

8   by a user, and processing the low fidelity downsampled digital content by an

9   enhancement module to provide user experience enhancement.

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1   27. The article of claim 26, wherein the processing instructions comprise

2   instructions for displaying data to enhance the user experience in perceiving the

3   rendered high fidelity digital content based at least in part on the low fidelity

4   downsampled digital content.

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1   28. The article of claim 26, further comprising instructions for protecting

2   the decrypting and rendering actions by using tamper resistance techniques to

3   deter unauthorized access to the decrypted digital content.

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1   29. The article of claim 26, wherein the encrypted high fidelity digital

2   content comprises digital audio data and the processing instructions comprise

3   instructions for generating a display of information for the user to enhance the

4   user's experience in using the player device, based at least in part on the low

5   fidelity downsampled digital content.

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